

PRAVALLIKA VASIREDDY

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EDUCATION

North Carolina State University, Raleigh, NC

Master of Science - Computer Networking

Coursework: Linux Networking, Switched Network Management, Cloud Computing, Design and Analysis of Algorithms, Neural Networks, Computer and Network Security, Internet Protocols, Software Engineering, Automated Data Learning and Algorithms

Amrita Vishwa Vidyapeetham, Coimbatore, India

Bachelor of Technology - Electronics and Communication

August 2023 - December 2024

GPA: 4.0/4.0

June 2016 - June 2020

GPA: 8.89/10

TECHNICAL SKILLS

Programming: Python, C, C++, Shell scripting, SQL, Restful APIs

Protocols: STP, VLAN, LACP, MLAG, MACSec, IPsec, Dot1x, DNS, DHCP, Virtualization, ARP, RADIUS, NTP, PTP, BFD, OSPF, BGP, IS-IS, VxLAN, EVPN, MPLS, GRE, QoS, IGMP, PIM, RIP, TCP, UDP, VARP, VRRP, SNMP, OpenFlow, gRPC

Database Management Systems: Hadoop, HBase, Elasticsearch

Tools: CVP, CVX, Git, Docker, Kubernetes, Ansible, Grafana, Prometheus, VMWare, AWS, GCP, Kafka, Terraform, NVAir, GNS3

Operating Systems: Linux, Cumulus Linux, Arista EOS, Arista MOS, Cisco IOS, Arccus ArcOS, MacOS, Windows, InfiniBand

PROFESSIONAL EXPERIENCE

NVIDIA, Solutions Architect Intern, Networking, Santa Clara, CA

May 2024 - Present

- Developed SN3420 switch configuration automation in Msft Azurestack HCI through Ansible, PowerShell and j2 templates.
- Automated and deployed basepod North-South Ethernet network for NCP RA using Python, Ansible and j2 templating on NVAir, aiming to translate VxLAN-EVPN multitenancy in the East-West InfiniBand network via pkeys.
- Automated the Cable Validation Tool for XAI's world's largest AI factory, reducing update times from 3hrs to instantaneous.
- Analyzing bandwidth saturation of an RDMA network with Spectrum switches, Gracehopper Client using BlueField3 DPU and 3 Ubuntu-based HPE storage servers with NVMe Drives and ConnectX6 cards provisioned through BCM.

North Carolina State University, Graduate Assistant, Raleigh, NC

August 2023 - May 2024

- Deployed and managed servers, Cisco, Arista and Arccus hardware and software in the Networking Lab.
- Led the effort to create projects related to UltraEthernet Consortium. Creating lab experiments for networking courses.

Arista Networks, Technical Solutions Engineer, Bangalore, India

August 2020 - July 2023

- Resolved 1200+ IPv4/v6 networking issues for global customers using L3LS/cloud architecture through analysis, lab replication and collaboration with cross-functional teams.
- Supported a wide range of EOS features, DC platforms, 7130 FPGA switches, and Awake NDR cybersecurity products.
- SME for CloudVision, a network telemetry and provisioning product with expertise in HBase, Kubernetes, APIs and Docker.
- Part of NetDevOps TAC resolving issues related to Network Automation - CVP/CVaaS, Ansible, AVD, and OpenConfig.
- Reviewed TOIs and tested RFEs with the development team, enhancing EOS/MOS/CVP features.
- Awarded "Pacer of the Year" in 2021 acknowledging quick ramp-up, significant ownership of cases, high impact on the team.
- Facilitated onboarding for 30+ new hires and interns, providing mentorship and delivering MLAG and CVP training sessions.

Arista Networks, Intern, Bangalore, India

January 2020 - August 2020

- Obtained industry-level expertise in networking through extensive training, hands-on exposure with various Arista platforms.
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PROJECT EXPERIENCE

Content Delivery Network as a Service (CDNaaS)

- Designed and implemented CDNaaS and IaaS through linux by employing caching, DNS and metric monitoring through Nginx and BIND9 to reduce latency, enhance user experience and improve availability and performance.

Troubleshooting Tool for VxLAN Bridging

- Developed a troubleshooting tool which uses eAPI, Python, HTML and CSS to efficiently automate finding faults in VxLAN bridging environments and suggest rectifications.

Deep Packet Inspection Tool

- Led a team of 3 interns to build a tool for troubleshooting which uses Python, HTML to review packet captures and identify issues in configuration for protocols such as OSPF, STP and LACP in a network.
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TECHNICAL CERTIFICATIONS/PUBLICATIONS

- "Troubleshooting Tool for VxLAN Bridging," in *2022 IEEE 3rd Global Conference for Advancement in Technology (GCAT)*
- Arista Cloud Engineer: Level 3 Certification, Arista Networks, July 2022
- CCNA Routing and Switching Course, Cisco Networking Academy, June 2019